

Trade name	Type	Structural formula		Color (APHA)	Viscosity (mPa·s/°C)	Acid value (mgKOH/g)	(1) Refractive index (n ²⁵ _D)	Flash point (°C)	Inhibitor (ppm)	Skin irritation (P.I.I.)	Registration(2)				Properties of cured film			Package	Characteristics	
											Japan METI	U.S.A. TSCA	Korea ECL	China CRC	Tensile strength (MPa)	Elongation (%)	Tg (°C)			
M-101A	Monofunctional	<u>EO-modified phenol acrylate</u>	n ≐ 2	≦300	10 – 20/25	≦1.0	1.514	177	170	1.1	○	○	○	○	—	—	-8	17kg 190kg	Low odor, low skin irritation	
M-102			n ≐ 4	≦300	20 – 40/25	≦1.0	1.507	186	240	0.0	○	○	○	○	—	—	-18	17kg	Low odor, low viscosity	
M-111		<u>EO-modified nonylphenol acrylate</u>	n ≐ 1	≦350	60 – 90/25	≦1.0	1.507	156	140	2.3	○	○	○	○	0.59	250	17	17kg 190kg	Superior compatibility	
M-113			n ≐ 4	≦200	80 – 110/25	≦0.5	1.501	224	130	1.1	○	○	○	○	0.10	50	-20	17kg 190kg	Low Tg	
M-117		<u>PO-modified nonylphenol acrylate (n ≐ 2.5)</u>		≦200	90 – 140/25	≦0.5	1.493	195	160	0.6	○	○	○	○	0.29	60	-3	17kg 190kg	Superior flexibility	
M-120		<u>EO-modified 2-ethylhexyl acrylate(n ≐ 2)</u>		≦150	4 – 7/25	≦0.3	1.450	140	480	3.5	○	×	○	○	—	—	-65	16kg 180kg	Low viscosity Low Tg	
M-140		<u>N-(Acryloyloxyethyl)hexahydrophthalimide</u>		≦500	350 – 550/25	≦1.0	1.506	190	460/HQ	0.9	○	LVE	×	○	8.3	0-5	56	18kg	Fast curability, superior flexibility Superior adhesion to metals and plastics	
M-208	Difunctional	<u>EO-modified bisphenol F diacrylate(n ≐ 2)</u>		≦150	500 – 700/25	≦1.0	1.539	Polymerization at 193°C	770	0.0	○	×	○	○	58	5	75	18kg 200kg	Fast curability Low skin irritation	
M-211B		<u>EO-modified bisphenol A diacrylate(n ≐ 2)</u>		≦300	950 – 1,350/25	≦1.0	1.536	Polymerization at 210°C	460	0.4	○	○	○	○	52	0-10	75	18kg 200kg	Fast curability, low skin irritation High hardness of cured product	
M-215		<u>EO-modified isocyanurate diacrylate</u>		≦100	3,500 - 15,000/25	≦1.3	1.515	35	1470	3.7	○	○	○	○	49	0-10	166	18kg 200kg	Contains toluene (4-9%) Contains OH groups Superior heat resistance High hardness of cured product	
M-220 (TPGDA)		<u>Polypropylene glycol diacrylate</u>	n ≐ 3	≦250	8 – 16/25	≦1.0	1.455	157	370	1.4	○	○	○	○	24	0-5	90	17kg 200kg	Low skin irritation Low viscosity	
M-225 (PPGDA)			n ≐ 7	≦200	30 – 40/25	≦1.0	1.450	208	100	0.8	○	×	×	○	2.6	10	-8	17kg 190kg	Superior dilution ability (PPG#400)	
M-270 (PPGDA)			n ≐ 12	≦200	65 – 85/25	≦1.0	1.451	Polymerization at 240°C	110	0.0	○	×	×	○	0.88	5	-32	17kg 190kg	(PPG#700)	
M-240 (TEGDA)		<u>Polyethylene glycol diacrylate(n ≐ 4)</u>		≦100	13 – 24/25	≦1.0	1.469	Polymerization at 154°C	200	4.0	○	○	○	○	19	0-10	50	18kg 200kg	Low viscosity (PEG#200)	
M-309 (TMPTA)	Multifunctional	<u>Trimethylol propane triacrylate</u>		≦200	60 – 110/25	≦1.0	1.480	167	100	3.2	○	○	○	○	23	0-5	≧250	18kg 200kg	Superior compatibility	
M-310		<u>PO-modified trimethylol propane triacrylate</u>	n ≐ 1	≦160	60 – 110/25	≦1.0	1.466	Polymerization at 190°C	430	1.1	○	○	○	○	17	0-5	120	18kg	Low skin irritation	
M-321 (POTMPTA)			n ≐ 2	≦300	70 – 170/25	≦2.0	1.457	Polymerization at 230°C	450	1.6	○	○	○	○	25	5	50	18kg 200kg		
M-350 (EOTMPTA)		<u>EO-modified trimethylol propane triacrylate</u>	n ≐ 1	≦100	45 – 65/25	≦0.4	1.476	Polymerization at 178°C	290	1.5	○	○	○	○	44	3	—	18kg 200kg	Fast curability	
M-360			n ≐ 2	≦200	65 – 90/25	≦0.5	1.476	Polymerization at 200°C	960	2.1	○	○	○	○	28	5	53	18kg		
M-313	Multifunctional	<u>EO-modified isocyanurate diacrylate and triacrylate</u>	Di(%) 30-40	≦100	20,000 – 36,000/25	≦1.0	1.509	Polymerization at 180°C	550	0.0	○	○	○	○	35	0-5	≧250	18kg 200kg	Superior adhesion to plastics	
M-315			Di(%) 3-13	≦500 (when melting)	600 – 1,200/50	≦1.0	Solid	Polymerization at 164°C	1270	0.1	○	○	○	○	69	0-10	≧250	18kg 200kg	Wax form Superior heat resistance Solvent-diluted product available	
M-327		<u>Modified e-caprolactone tris(acroxyethyl)isocyanurate</u>		I+m+n ≐ 3	≦200	1,800 – 3,000/25	≦5.0	No Data	Polymerization at 190°C	190	No Data	○	×	○	○	30	0-5	82	18kg 200kg	
M-306 (PETA)	Multifunctional	<u>Pentaerythritol triacrylate and tetraacrylate</u>		Tri(%) 65-70	≦150	400 – 650/25	≦2.0	1.490	Polymerization at 190°C	1000	No Data	○	○	○	○	—	—	≧250	18kg 200kg	Fast curability For urethane modification
M-305 (PETA)				Tri(%) 55-63	≦100	180 – 800/25	≦1.0	1.490	Polymerization at 190°C	610	2.8	○	○	○	○	38	0-5	≧250	18kg 200kg	For general purpose product Fast curability
M-451 (PETTA)				Tri(%) 25-40	≦100	Solid or 400 - 650/25	≦1.0	No Data	Polymerization at 190°C	220	0.4	○	○	○	○	—	—	≧250	200kg	Fast curability
M-450 (PETTA)				Tri(%) < 10	≦200	60 – 100/50	≦1.0	Solid	199	360	0.4	○	○	○	○	—	—	≧250	18kg 200kg	Wax form Fast curability

M-408 (DTMPTA)	DTMPTA Multifunctional	<u>Ditrimethylol propane tetraacrylate</u>		≤300	470 – 670/25	≤1.0	1.490	Polymerization at 170℃	210	0.0	○	○	○	○	—	—	≥250	18kg 200kg	Superior reactivity and compatibility
M-403 (DPHA)	DPHA Multifunctional	<u>Dipentaerythritol pentaacrylate and hexaacrylate</u>	Penta (%) 50–60	≤300	Solid or 7,500 - 9,500/25	≤5.0	No Data	Polymerization at 200℃	460	No Data	○	○	○	○	—	—	≥250	18kg 200kg	For urethane
M-400 (DPHA)			Penta (%) 40–50	≤200	Solid or 5,000 - 7,000/25	≤2.5	1.494	Polymerization at 180℃	510	0.4	○	○	○	○	—	—	≥250	18kg 200kg	For general purpose product
M-402 (DPHA)			Penta (%) 30–40	≤100	Solid or 5,000 - 7,400/25	≤0.5	1.494	Polymerization at 176℃	430	0.4	○	○	○	○	—	—	≥250	18kg 200kg	excellent water fighting property for lithographic ink Solvent-diluted product available
M-404 (DPHA)			Penta (%) 30–40	≤100	4,500 - 7,000/25	≤1.0	No Data	Polymerization at 170℃	490	No Data	○	○	○	○	—	—	≥250	18kg 200kg	excellent water fighting property for lithographic ink Hard to crystallize
M-406 (DPHA)			Penta (%) 25–35	≤200	Solid or 6,800 - 9,800/25	≤1.0	No Data	Polymerization at 170℃	490	No Data	○	○	○	○	—	—	≥250	18kg 200kg	excellent water fighting property for lithographic ink High viscosity type
M-405 (DPHA)			Penta (%) 10–20	≤150	3,700 - 5,700/25	≤0.2	1.493	Polymerization at 175℃	430	0.4	○	○	○	○	—	—	≥250	18kg 200kg	excellent water fighting property for lithographic ink (monomer-diluted type)
M-5300	Monofunctional	<u>ω-Carboxy-polycaprolactone monoacrylate (n≐2)</u>		—	80 – 180/25	140-260	1.468	158	550	2.0	○	×	○	○	—	—	—	18kg 200kg	COOH group as secondary functionality
M-5400		<u>Phthalic acid monohydroxyethyl acrylate</u>		—	4,000 – 7,000/25	190-220	1.530	140	310	4.7	○	×	×	○	39	5	—	18kg 200kg	COOH group as secondary functionality Fast curability
M-5700		<u>2-Hydroxy-3-phenoxypropyl acrylate</u>		≤100	140 - 190/25	≤0.5	1.530	133	540	0.9	○	○	○	○	1.2	200-300	17	18kg 200kg	OH group as secondary functionality Flexible
M-510	Multifunctional	<u>Modified polybasic acrylic oligomer</u>		≤100	3,500 – 6,500/25	80-120	No Data	170	450	4.8	○	×	○	○	Not measured	Not measured	Not measured	18kg	COOH group as secondary functionality High acid value
M-520				≤100	Solid or 11,500 - 16,500/25	20-40	No Data	Polymerization at 160℃	850	No Data	○	×	○	×	Not measured	Not measured	Not measured	18kg	COOH group as secondary functionality Low acid value
M-1100	Urethane (Difunctional)	<u>Structural formula</u>		—	70,000 – 130,000/50	—	1.512	Polymerization at 190℃	—	1.1	○	○	○	○	25	50	47	18kg	Yellowing type Superior adhesion to polyvinyl chloride
M-1200				—	120,000 – 220,000/50	—	1.489	Polymerization at 190℃	—	1.3	○	○	○	○	25	50	35	18kg	Non-yellowing type Superior adhesion to polyvinyl chloride
M-1600				—	8,000 – 12,000/50	—	1.487	Polymerization at 210℃	—	1.8	○	○	○	○	34	45	82	18kg	Non-yellowing, fast curing type Superior weather resistance
M-1960	Urethane (Multifunctional)	(Unpublished) Urethane adduct		≤300	6,000 – 40,000/50	—	1.497	Polymerization at 165℃	—	No Data	○	×	×	×	18	0-5	≥250	18kg	Superior heat resistance
M-6100	Polyester (Difunctional)	<u>Structural formula</u>		≤150	200 – 450/25	≤8.0	1.508	152	540	4.0	○	○	○	○	49	10-30	29	18kg	
M-6200				≤150	700 – 3,700/25	≤1.0	1.521	160	560	2.3	○	○	○	○	15	35	35	18kg	
M-6250				≤300	300 – 700/25	≤1.0	1.510	159	350	2.3	○	○	○	○	9.8	30	45	18kg 200kg	
M-6500				≤700	300 – 500/25	≤15.0	1.509	190	600	0.8	○	○	○	○	5.9	20	40	18kg	Low skin irritation
M-7100	Polyester (Multifunctional)	<u>Structural formula</u>		≤300	8,000 - 13,500/25	≤15.0	1.510	Polymerization at 160℃	430	0.5	○	○	○	○	49	5-10	105	18kg 200kg	High gloss Fast curability, high hardness
M-7300K				≤100	2,000 – 3,000/25	≤1.0	1.504	Polymerization at 164℃	400	1.5	○	×	×	○	26	≤1	≥250	18kg 200kg	Fast curability, high hardness Superior heat resistance
M-8030				≤200	560 - 960/25	≤7.0	1.487	162	270	3.0	○	○	○	○	29	5-10	≥250	18kg 200kg	Superior compatibility Superior heat resistance
M-8060				≤250	5,000 – 12,000/25	≤16.0	1.495	Polymerization at 140℃	380	3.5	○	○	○	○	39	5-10	≥250	18kg 200kg	Superior compatibility Superior heat resistance
M-8100				≤500	8,000 – 12,000/25	≤20.0	1.495	12	500	1.9	○	○	○	○	39	5-10	163	18kg 200kg	Contains toluene (6-15%)
M-8530				≤300	350 – 600/25	≤10.0	1.480	Polymerization at 170℃	400	0.0	○	○	○	○	48	5-10	—	18kg 200kg	Low skin irritation Fast curability
M-8560				≤300	3,400 - 7,400/25	≤20.0	1.486	Polymerization at 160℃	490	1.1	○	○	○	○	51	≤1	—	18kg 200kg	Low skin irritation Fast curability
M-9050				≤500	6,000 - 14,000/25	≤10.0	1.499	Polymerization at 150℃	630	3.4	○	×	×	○	57	5	≥300	18kg 200kg	Superior heat resistance

(1)before curing (liquid)

The data shown in the table are based on our internal experiments with the utmost care, but they are not necessarily guaranteed value.

(2) A circle symbol (○) represents that a reference has been confirmed. A cross symbol (×) represents that there is no reference or that the reference has not been confirmed.

Our checks have been performed with the utmost care but we ask that you perform your own checks before use.